

Appendix Table 1-11
Engineering and computer/information science course enrollment of students in grade 11, by student and family characteristics: 2012

(Percent)

Student and family characteristic	Engineering	Computer/ information science (any)	Specific computer/information science			
			Computer applications	Computer programming	AP computer science	Other
All students	2.0	5.7	2.5	1.3	0.3	1.7
Sex						
Male	3.3	7.2	2.9	1.9	0.5	2.0
Female	0.7	4.2	2.1	0.7	0.1	1.4
Race or ethnicity						
White	2.1	5.5	2.2	1.3	0.4	1.6
Black	1.9	5.6	2.5	0.9	0.3	2.0
Hispanic ^a	1.6	6.2	3.3	1.2	0.2	1.5
Asian	1.9	6.9	2.6	1.8	1.0	1.6
Other ^b	2.1	5.7	2.1	1.3	0.1	2.2
Parents' highest education ^c						
Less than high school	1.4	8.1	3.5	0.4	0.3	4.0
High school diploma or equivalent	1.2	7.7	3.1	1.6	0.4	2.6
Associate's degree	2.4	4.2	1.3	0.9	0.4	1.5
Bachelor's degree	1.5	4.7	2.6	0.4	0.4	1.3
Master's degree or higher	2.6	5.6	2.5	1.6	0.3	1.2
Highest mathematics course in grade 9						
No math	2.3	6.4	3.1	1.1	0.3	1.9



Student and family characteristic	Specific computer/information science					
	Engineering	Computer/ information science (any)	Computer applications	Computer programming	AP computer science	Other
Basic math/pre-algebra	1.5	4.0	1.8	1.3	0.1	0.9
Algebra 1	1.7	5.5	2.5	1.2	0.1	1.7
Above algebra 1	2.4	6.4	2.5	1.4	0.6	1.9
Pre-high school mathematics achievement						
Lowest fifth	1.8	4.5	2.5	1.0	0.2	0.8
Middle three-fifths	1.7	5.9	2.5	1.3	0.1	1.9
Highest fifth	2.9	6.6	2.4	1.5	0.9	1.9
Students' educational expectations in grade 9						
High school or less	1.9	5.3	2.5	1.6	0.1	1.1
Some college	1.8	4.6	1.8	1.3	0.1	1.4
Bachelor's degree	2.3	6.4	3.2	1.2	0.2	1.8
Graduate/professional degree	2.1	5.9	2.6	1.3	0.4	1.6
Don't know	1.7	5.7	2.0	1.1	0.3	2.3
Control of school in grade 12						
Public	2.1	5.8	2.5	1.3	0.3	1.8
Private	1.0	4.0	1.6	1.2	0.3	0.9
Socioeconomic status in grade 12 ^d						
Lowest fifth	1.4	7.8	3.6	1.3	0.3	2.5
Middle three-fifths	2.1	5.1	2.3	1.1	0.2	1.5
Highest fifth	2.2	5.6	1.9	1.7	0.5	1.4

AP = Advanced Placement.

^a Hispanic may be any race. Asian, black or African American, white, and other races refer to individuals who are not of Hispanic origin.



^b Other includes Alaska Native, American Indian, Native Hawaiian, Pacific Islander, more than one race, and those having origins in a race not listed.

^c The highest level of education achieved by either parent.

^d Socioeconomic status (SES) is a composite variable derived from parental education level, parental occupation, and family income. The quintile measure divides the SES distribution into five equal quintile groups. Quintile 1 corresponds to the lowest one-fifth of the population, and quintile 5 corresponds to the highest. For this report, the middle three quintiles are combined into one category.

NOTE: Percentages may not add to total because of rounding.

SOURCE: National Science Foundation, National Center for Science and Engineering Statistics, special tabulations (2014) of High School Longitudinal Study of 2009 (HSL:09), National Center for Education Statistics.

Science and Engineering Indicators 2016